

HENRY DAVID THOREAU

A scenic photograph of a wooden bridge spanning a calm river. The bridge is made of light-colored wood with railings and is supported by several wooden pilings. The water is still, reflecting the bridge and the surrounding greenery. The background is filled with dense, lush green trees. The sky is a clear, vibrant blue with a few small, white clouds. The overall atmosphere is peaceful and natural.

***A WEEK ON THE CONCORD
AND MERRIMACK RIVERS***

***HENRY DAVID
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CONCORD RIVER.

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“Beneath low hills, in the broad interval
Through which at will our Indian rivulet
Winds mindful still of sannup and of squaw,
Whose pipe and arrow oft the plough unburies,
Here, in pine houses, built of new-fallen trees,
Supplanters of the tribe, the farmers dwell.”

EMERSON.

The Musketaquid, or Grass-ground River, though probably as old as the Nile or Euphrates, did not begin to have a place in civilized history, until the fame of its grassy meadows and its fish attracted settlers out of England in 1635, when it received the other but kindred name of CONCORD from the first plantation on its banks, which appears to have been commenced in a spirit of peace and harmony. It will be Grass-ground River as long as grass grows and water runs here; it will be Concord River only while men lead peaceable lives on its banks. To an extinct race it was grass-ground, where they hunted and fished, and it is still perennial grass-ground to Concord farmers, who own the Great Meadows, and get the hay from year to year. “One branch of it,” according to the historian of Concord, for I love to quote so good authority, “rises in the south part of Hopkinton, and another from a pond and a large cedar-swamp in Westborough,” and flowing between Hopkinton and Southborough, through Framingham, and between Sudbury and Wayland, where it is sometimes called Sudbury River, it enters Concord at the south part of the town, and after receiving the North or Assabeth River, which has its

source a little farther to the north and west, goes out at the northeast angle, and flowing between Bedford and Carlisle, and through Billerica, empties into the Merrimack at Lowell. In Concord it is, in summer, from four to fifteen feet deep, and from one hundred to three hundred feet wide, but in the spring freshets, when it overflows its banks, it is in some places nearly a mile wide. Between Sudbury and Wayland the meadows acquire their greatest breadth, and when covered with water, they form a handsome chain of shallow vernal lakes, resorted to by numerous gulls and ducks. Just above Sherman's Bridge, between these towns, is the largest expanse, and when the wind blows freshly in a raw March day, heaving up the surface into dark and sober billows or regular swells, skirted as it is in the distance with alder-swamps and smoke-like maples, it looks like a smaller Lake Huron, and is very pleasant and exciting for a landsman to row or sail over. The farm-houses along the Sudbury shore, which rises gently to a considerable height, command fine water prospects at this season. The shore is more flat on the Wayland side, and this town is the greatest loser by the flood. Its farmers tell me that thousands of acres are flooded now, since the dams have been erected, where they remember to have seen the white honeysuckle or clover growing once, and they could go dry with shoes only in summer. Now there is nothing but blue-joint and sedge and cut-grass there, standing in water all the year round. For a long time, they made the most of the driest season to get their hay, working sometimes till nine o'clock at night, sedulously paring with their scythes in the twilight round the hummocks left by the ice; but now it is not worth

the getting when they can come at it, and they look sadly round to their wood-lots and upland as a last resource.

It is worth the while to make a voyage up this stream, if you go no farther than Sudbury, only to see how much country there is in the rear of us; great hills, and a hundred brooks, and farm-houses, and barns, and haystacks, you never saw before, and men everywhere, Sudbury, that is Southborough men, and Wayland, and Nine-Acre-Corner men, and Bound Rock, where four towns bound on a rock in the river, Lincoln, Wayland, Sudbury, Concord. Many waves are there agitated by the wind, keeping nature fresh, the spray blowing in your face, reeds and rushes waving; ducks by the hundred, all uneasy in the surf, in the raw wind, just ready to rise, and now going off with a clatter and a whistling like riggers straight for Labrador, flying against the stiff gale with reefed wings, or else circling round first, with all their paddles briskly moving, just over the surf, to reconnoitre you before they leave these parts; gulls wheeling overhead, muskrats swimming for dear life, wet and cold, with no fire to warm them by that you know of; their labored homes rising here and there like haystacks; and countless mice and moles and winged titmice along the sunny windy shore; cranberries tossed on the waves and heaving up on the beach, their little red skiffs beating about among the alders;—such healthy natural tumult as proves the last day is not yet at hand. And there stand all around the alders, and birches, and oaks, and maples full of glee and sap, holding in their buds until the waters subside. You shall perhaps run aground on Cranberry Island, only some spires of last year's pipe-grass above water, to show where

the danger is, and get as good a freezing there as anywhere on the Northwest Coast. I never voyaged so far in all my life. You shall see men you never heard of before, whose names you don't know, going away down through the meadows with long ducking-guns, with water-tight boots wading through the fowl-meadow grass, on bleak, wintry, distant shores, with guns at half-cock, and they shall see teal, blue-winged, green-winged, shelldrakes, whistlers, black ducks, ospreys, and many other wild and noble sights before night, such as they who sit in parlors never dream of. You shall see rude and sturdy, experienced and wise men, keeping their castles, or teaming up their summer's wood, or chopping alone in the woods, men fuller of talk and rare adventure in the sun and wind and rain, than a chestnut is of meat; who were out not only in '75 and 1812, but have been out every day of their lives; greater men than Homer, or Chaucer, or Shakespeare, only they never got time to say so; they never took to the way of writing. Look at their fields, and imagine what they might write, if ever they should put pen to paper. Or what have they not written on the face of the earth already, clearing, and burning, and scratching, and harrowing, and ploughing, and subsoiling, in and in, and out and out, and over and over, again and again, erasing what they had already written for want of parchment.

As yesterday and the historical ages are past, as the work of to-day is present, so some flitting perspectives, and demi-experiences of the life that is in nature are in time veritably future, or rather outside to time, perennial, young, divine, in the wind and rain which never die.

The respectable folks,—
Where dwell they?

They whisper in the oaks,
And they sigh in the hay;
Summer and winter, night and day,
Out on the meadow, there dwell they.
They never die,
Nor snivel, nor cry,
Nor ask our pity
With a wet eye.
A sound estate they ever mend
To every asker readily lend;
To the ocean wealth,
To the meadow health,
To Time his length,
To the rocks strength,
To the stars light,
To the weary night,
To the busy day,
To the idle play;
And so their good cheer never ends,
For all are their debtors, and all their friends.

Concord River is remarkable for the gentleness of its current, which is scarcely perceptible, and some have referred to its influence the proverbial moderation of the inhabitants of Concord, as exhibited in the Revolution, and on later occasions. It has been proposed, that the town should adopt for its coat of arms a field verdant, with the Concord circling nine times round. I have read that a descent of an eighth of an inch in a mile is sufficient to produce a flow. Our river has, probably, very near the smallest allowance. The story is current, at any rate, though I believe that strict history will not bear it out, that the only bridge ever carried away on the main branch, within the limits of the town, was driven up stream by the wind. But

wherever it makes a sudden bend it is shallower and swifter, and asserts its title to be called a river. Compared with the other tributaries of the Merrimack, it appears to have been properly named Musquetaquid, or Meadow River, by the Indians. For the most part, it creeps through broad meadows, adorned with scattered oaks, where the cranberry is found in abundance, covering the ground like a moss-bed. A row of sunken dwarf willows borders the stream on one or both sides, while at a greater distance the meadow is skirted with maples, alders, and other fluviatile trees, overrun with the grape-vine, which bears fruit in its season, purple, red, white, and other grapes. Still farther from the stream, on the edge of the firm land, are seen the gray and white dwellings of the inhabitants. According to the valuation of 1831, there were in Concord two thousand one hundred and eleven acres, or about one seventh of the whole territory in meadow; this standing next in the list after pasturage and unimproved lands, and, judging from the returns of previous years, the meadow is not reclaimed so fast as the woods are cleared.

Let us here read what old Johnson says of these meadows in his "Wonder-working Providence," which gives the account of New England from 1628 to 1652, and see how matters looked to him. He says of the Twelfth Church of Christ gathered at Concord: "This town is seated upon a fair fresh river, whose rivulets are filled with fresh marsh, and her streams with fish, it being a branch of that large river of Merrimack. Allwives and shad in their season come up to this town, but salmon and dace cannot come up, by reason of the rocky falls, which causeth their meadows to lie much

covered with water, the which these people, together with their neighbor town, have several times essayed to cut through but cannot, yet it may be turned another way with an hundred pound charge as it appeared." As to their farming he says: "Having laid out their estate upon cattle at 5 to 20 pound a cow, when they came to winter them with inland hay, and feed upon such wild fother as was never cut before, they could not hold out the winter, but, ordinarily the first or second year after their coming up to a new plantation, many of their cattle died." And this from the same author "Of the Planting of the 19th Church in the Mattachusetts' Government, called Sudbury": "This year [does he mean 1654] the town and church of Christ at Sudbury began to have the first foundation stones laid, taking up her station in the inland country, as her elder sister Concord had formerly done, lying further up the same river, being furnished with great plenty of fresh marsh, but, it lying very low is much indamaged with land floods, insomuch that when the summer proves wet they lose part of their hay; yet are they so sufficiently provided that they take in cattle of other towns to winter."

The sluggish artery of the Concord meadows steals thus unobserved through the town, without a murmur or a pulse-beat, its general course from southwest to northeast, and its length about fifty miles; a huge volume of matter, ceaselessly rolling through the plains and valleys of the substantial earth with the moccasoned tread of an Indian warrior, making haste from the high places of the earth to its ancient reservoir. The murmurs of many a famous river on the other side of the globe reach even to us here, as to

more distant dwellers on its banks; many a poet's stream floating the helms and shields of heroes on its bosom. The Xanthus or Scamander is not a mere dry channel and bed of a mountain torrent, but fed by the everflowing springs of fame;—

“And thou Simois, that as an arrowe, clere
Through Troy rennest, aie downward to the sea”;—

and I trust that I may be allowed to associate our muddy but much abused Concord River with the most famous in history.

“Sure there are poets which did never dream
Upon Parnassus, nor did taste the stream
Of Helicon; we therefore may suppose
Those made not poets, but the poets those.”

The Mississippi, the Ganges, and the Nile, those journeying atoms from the Rocky Mountains, the Himmaleh, and Mountains of the Moon, have a kind of personal importance in the annals of the world. The heavens are not yet drained over their sources, but the Mountains of the Moon still send their annual tribute to the Pasha without fail, as they did to the Pharaohs, though he must collect the rest of his revenue at the point of the sword. Rivers must have been the guides which conducted the footsteps of the first travellers. They are the constant lure, when they flow by our doors, to distant enterprise and adventure, and, by a natural impulse, the dwellers on their banks will at length accompany their currents to the lowlands of the globe, or explore at their invitation the interior of continents. They are the natural highways of all nations, not only levelling the ground and removing obstacles from the path of the traveller, quenching his thirst and bearing him on their

bosoms, but conducting him through the most interesting scenery, the most populous portions of the globe, and where the animal and vegetable kingdoms attain their greatest perfection.

I had often stood on the banks of the Concord, watching the lapse of the current, an emblem of all progress, following the same law with the system, with time, and all that is made; the weeds at the bottom gently bending down the stream, shaken by the watery wind, still planted where their seeds had sunk, but ere long to die and go down likewise; the shining pebbles, not yet anxious to better their condition, the chips and weeds, and occasional logs and stems of trees that floated past, fulfilling their fate, were objects of singular interest to me, and at last I resolved to launch myself on its bosom and float whither it would bear me.

SATURDAY.

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“Come, come, my lovely fair, and let us try
Those rural delicacies.”

Christ's Invitation to the Soul.

QUARLES

SATURDAY.

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At length, on Saturday, the last day of August, 1839, we two, brothers, and natives of Concord, weighed anchor in this river port; for Concord, too, lies under the sun, a port of entry and departure for the bodies as well as the souls of men; one shore at least exempted from all duties but such as an honest man will gladly discharge. A warm drizzling rain had obscured the morning, and threatened to delay our voyage, but at length the leaves and grass were dried, and it came out a mild afternoon, as serene and fresh as if Nature were maturing some greater scheme of her own. After this long dripping and oozing from every pore, she began to respire again more healthily than ever. So with a vigorous shove we launched our boat from the bank, while the flags and bulrushes courtesied a God-speed, and dropped silently down the stream.

Our boat, which had cost us a week's labor in the spring, was in form like a fisherman's dory, fifteen feet long by three and a half in breadth at the widest part, painted green below, with a border of blue, with reference to the two elements in which it was to spend its existence. It had been loaded the evening before at our door, half a mile from the river, with potatoes and melons from a patch which we had cultivated, and a few utensils, and was provided with wheels in order to be rolled around falls, as well as with two sets of oars, and several slender poles for shoving in shallow places, and also two masts, one of which served for a tent-pole at night; for a buffalo-skin was to be our bed, and a

tent of cotton cloth our roof. It was strongly built, but heavy, and hardly of better model than usual. If rightly made, a boat would be a sort of amphibious animal, a creature of two elements, related by one half its structure to some swift and shapely fish, and by the other to some strong-winged and graceful bird. The fish shows where there should be the greatest breadth of beam and depth in the hold; its fins direct where to set the oars, and the tail gives some hint for the form and position of the rudder. The bird shows how to rig and trim the sails, and what form to give to the prow that it may balance the boat, and divide the air and water best. These hints we had but partially obeyed. But the eyes, though they are no sailors, will never be satisfied with any model, however fashionable, which does not answer all the requisitions of art. However, as art is all of a ship but the wood, and yet the wood alone will rudely serve the purpose of a ship, so our boat, being of wood, gladly availed itself of the old law that the heavier shall float the lighter, and though a dull water-fowl, proved a sufficient buoy for our purpose.

“Were it the will of Heaven, an osier bough
Were vessel safe enough the seas to plough.”

Some village friends stood upon a promontory lower down the stream to wave us a last farewell; but we, having already performed these shore rites, with excusable reserve, as befits those who are embarked on unusual enterprises, who behold but speak not, silently glided past the firm lands of Concord, both peopled cape and lonely summer meadow, with steady sweeps. And yet we did unbend so far as to let our guns speak for us, when at length we had swept out of sight, and thus left the woods to ring again with their

echoes; and it may be many russet-clad children, lurking in those broad meadows, with the bittern and the woodcock and the rail, though wholly concealed by brakes and hardhack and meadow-sweet, heard our salute that afternoon.

We were soon floating past the first regular battle ground of the Revolution, resting on our oars between the still visible abutments of that "North Bridge," over which in April, 1775, rolled the first faint tide of that war, which ceased not, till, as we read on the stone on our right, it "gave peace to these United States." As a Concord poet has sung:—

"By the rude bridge that arched the flood,
Their flag to April's breeze unfurled,
Here once the embattled farmers stood,
And fired the shot heard round the world.

"The foe long since in silence slept;
Alike the conqueror silent sleeps;
And Time the ruined bridge has swept
Down the dark stream which seaward creeps."

Our reflections had already acquired a historical remoteness from the scenes we had left, and we ourselves essayed to sing.

Ah, 't is in vain the peaceful din
That wakes the ignoble town,
Not thus did braver spirits win
A patriot's renown.

There is one field beside this stream,
Wherein no foot does fall,
But yet it beareth in my dream
A richer crop than all.

Let me believe a dream so dear,
Some heart beat high that day,
Above the petty Province here,
And Britain far away;

Some hero of the ancient mould,
Some arm of knightly worth,
Of strength unbought, and faith unsold,
Honored this spot of earth;

Who sought the prize his heart described,
And did not ask release,
Whose free-born valor was not bribed
By prospect of a peace.

The men who stood on yonder height
That day are long since gone;
Not the same hand directs the fight
And monumental stone.

Ye were the Grecian cities then,
The Romes of modern birth,
Where the New England husbandmen
Have shown a Roman worth.

In vain I search a foreign land
To find our Bunker Hill,
And Lexington and Concord stand
By no Laconian rill.

With such thoughts we swept gently by this now peaceful
pasture-ground, on waves of Concord, in which was long
since drowned the din of war.
But since we sailed
Some things have failed,
And many a dream

Gone down the stream.

Here then an aged shepherd dwelt,
Who to his flock his substance dealt,
And ruled them with a vigorous crook,
By precept of the sacred Book;
But he the pierless bridge passed o'er,
And solitary left the shore.

Anon a youthful pastor came,
Whose crook was not unknown to fame,
His lambs he viewed with gentle glance,
Spread o'er the country's wide expanse,
And fed with "Mosses from the Manse."
Here was our Hawthorne in the dale,
And here the shepherd told his tale.

That slight shaft had now sunk behind the hills, and we
had floated round the neighboring bend, and under the new
North Bridge between Ponkawtasset and the Poplar Hill, into
the Great Meadows, which, like a broad moccason print,
have levelled a fertile and juicy place in nature.
On Ponkawtasset, since, we took our way,
Down this still stream to far Billericay,
A poet wise has settled, whose fine ray
Doth often shine on Concord's twilight day.

Like those first stars, whose silver beams on high,
Shining more brightly as the day goes by,
Most travellers cannot at first descry,
But eyes that wont to range the evening sky,

And know celestial lights, do plainly see,
And gladly hail them, numbering two or three;
For lore that's deep must deeply studied be,
As from deep wells men read star-poetry.

These stars are never paled, though out of sight,
But like the sun they shine forever bright;
Ay, *they* are suns, though earth must in its flight
Put out its eyes that it may see their light.

Who would neglect the least celestial sound,
Or faintest light that falls on earthly ground,
If he could know it one day would be found
That star in Cygnus whither we are bound,
And pale our sun with heavenly radiance round?

Gradually the village murmur subsided, and we seemed to be embarked on the placid current of our dreams, floating from past to future as silently as one awakes to fresh morning or evening thoughts. We glided noiselessly down the stream, occasionally driving a pickerel or a bream from the covert of the pads, and the smaller bittern now and then sailed away on sluggish wings from some recess in the shore, or the larger lifted itself out of the long grass at our approach, and carried its precious legs away to deposit them in a place of safety. The tortoises also rapidly dropped into the water, as our boat ruffled the surface amid the willows, breaking the reflections of the trees. The banks had passed the height of their beauty, and some of the brighter flowers showed by their faded tints that the season was verging towards the afternoon of the year; but this sombre tinge enhanced their sincerity, and in the still unabated heats they seemed like the mossy brink of some cool well. The narrow-leaved willow (*Salix Purshiana*) lay along the surface of the water in masses of light green foliage, interspersed with the large balls of the button-bush. The small rose-colored polygonum raised its head proudly above

the water on either hand, and flowering at this season and in these localities, in front of dense fields of the white species which skirted the sides of the stream, its little streak of red looked very rare and precious. The pure white blossoms of the arrow-head stood in the shallower parts, and a few cardinals on the margin still proudly surveyed themselves reflected in the water, though the latter, as well as the pickerel-weed, was now nearly out of blossom. The snake-head, *Chelone glabra*, grew close to the shore, while a kind of coreopsis, turning its brazen face to the sun, full and rank, and a tall dull red flower, *Eupatorium purpureum*, or trumpet-weed, formed the rear rank of the fluvial array. The bright blue flowers of the soap-wort gentian were sprinkled here and there in the adjacent meadows, like flowers which Proserpine had dropped, and still farther in the fields or higher on the bank were seen the purple Gerardia, the Virginian rhexia, and drooping neottia or ladies'-tresses; while from the more distant waysides which we occasionally passed, and banks where the sun had lodged, was reflected still a dull yellow beam from the ranks of tansy, now past its prime. In short, Nature seemed to have adorned herself for our departure with a profusion of fringes and curls, mingled with the bright tints of flowers, reflected in the water. But we missed the white water-lily, which is the queen of river flowers, its reign being over for this season. He makes his voyage too late, perhaps, by a true water clock who delays so long. Many of this species inhabit our Concord water. I have passed down the river before sunrise on a summer morning between fields of lilies still shut in sleep; and when, at length, the flakes of sunlight

from over the bank fell on the surface of the water, whole fields of white blossoms seemed to flash open before me, as I floated along, like the unfolding of a banner, so sensible is this flower to the influence of the sun's rays.

As we were floating through the last of these familiar meadows, we observed the large and conspicuous flowers of the hibiscus, covering the dwarf willows, and mingled with the leaves of the grape, and wished that we could inform one of our friends behind of the locality of this somewhat rare and inaccessible flower before it was too late to pluck it; but we were just gliding out of sight of the village spire before it occurred to us that the farmer in the adjacent meadow would go to church on the morrow, and would carry this news for us; and so by the Monday, while we should be floating on the Merrimack, our friend would be reaching to pluck this blossom on the bank of the Concord.

After a pause at Ball's Hill, the St. Ann's of Concord voyageurs, not to say any prayer for the success of our voyage, but to gather the few berries which were still left on the hills, hanging by very slender threads, we weighed anchor again, and were soon out of sight of our native village. The land seemed to grow fairer as we withdrew from it. Far away to the southwest lay the quiet village, left alone under its elms and buttonwoods in mid afternoon; and the hills, notwithstanding their blue, ethereal faces, seemed to cast a saddened eye on their old playfellows; but, turning short to the north, we bade adieu to their familiar outlines, and addressed ourselves to new scenes and adventures. Naught was familiar but the heavens, from under whose roof the voyageur never passes; but with their countenance, and

the acquaintance we had with river and wood, we trusted to fare well under any circumstances.

From this point, the river runs perfectly straight for a mile or more to Carlisle Bridge, which consists of twenty wooden piers, and when we looked back over it, its surface was reduced to a line's breadth, and appeared like a cobweb gleaming in the sun. Here and there might be seen a pole sticking up, to mark the place where some fisherman had enjoyed unusual luck, and in return had consecrated his rod to the deities who preside over these shallows. It was full twice as broad as before, deep and tranquil, with a muddy bottom, and bordered with willows, beyond which spread broad lagoons covered with pads, bulrushes, and flags.

Late in the afternoon we passed a man on the shore fishing with a long birch pole, its silvery bark left on, and a dog at his side, rowing so near as to agitate his cork with our oars, and drive away luck for a season; and when we had rowed a mile as straight as an arrow, with our faces turned towards him, and the bubbles in our wake still visible on the tranquil surface, there stood the fisher still with his dog, like statues under the other side of the heavens, the only objects to relieve the eye in the extended meadow; and there would he stand abiding his luck, till he took his way home through the fields at evening with his fish. Thus, by one bait or another, Nature allures inhabitants into all her recesses. This man was the last of our townsmen whom we saw, and we silently through him bade adieu to our friends.

The characteristics and pursuits of various ages and races of men are always existing in epitome in every neighborhood. The pleasures of my earliest youth have

become the inheritance of other men. This man is still a fisher, and belongs to an era in which I myself have lived. Perchance he is not confounded by many knowledges, and has not sought out many inventions, but how to take many fishes before the sun sets, with his slender birchen pole and flaxen line, that is invention enough for him. It is good even to be a fisherman in summer and in winter. Some men are judges these August days, sitting on benches, even till the court rises; they sit judging there honorably, between the seasons and between meals, leading a civil politic life, arbitrating in the case of Spaulding *versus* Cummings, it may be, from highest noon till the red vesper sinks into the west. The fisherman, meanwhile, stands in three feet of water, under the same summer's sun, arbitrating in other cases between muckworm and shiner, amid the fragrance of water-lilies, mint, and pontederia, leading his life many rods from the dry land, within a pole's length of where the larger fishes swim. Human life is to him very much like a river, "renning aie downward to the sea."

This was his observation. His honor made a great discovery in bailments.

I can just remember an old brown-coated man who was the Walton of this stream, who had come over from Newcastle, England, with his son,—the latter a stout and hearty man who had lifted an anchor in his day. A straight old man he was who took his way in silence through the meadows, having passed the period of communication with his fellows; his old experienced coat, hanging long and straight and brown as the yellow-pine bark, glittering with so much smothered sunlight, if you stood near enough, no work of art but naturalized at length. I often discovered him

unexpectedly amid the pads and the gray willows when he moved, fishing in some old country method,—for youth and age then went a fishing together,—full of incommunicable thoughts, perchance about his own Tyne and Northumberland. He was always to be seen in serene afternoons haunting the river, and almost rustling with the sedge; so many sunny hours in an old man's life, entrapping silly fish; almost grown to be the sun's familiar; what need had he of hat or raiment any, having served out his time, and seen through such thin disguises? I have seen how his coeval fates rewarded him with the yellow perch, and yet I thought his luck was not in proportion to his years; and I have seen when, with slow steps and weighed down with aged thoughts, he disappeared with his fish under his low-roofed house on the skirts of the village. I think nobody else saw him; nobody else remembers him now, for he soon after died, and migrated to new Tyne streams. His fishing was not a sport, nor solely a means of subsistence, but a sort of solemn sacrament and withdrawal from the world, just as the aged read their Bibles.

Whether we live by the seaside, or by the lakes and rivers, or on the prairie, it concerns us to attend to the nature of fishes, since they are not phenomena confined to certain localities only, but forms and phases of the life in nature universally dispersed. The countless shoals which annually coast the shores of Europe and America are not so interesting to the student of nature, as the more fertile law itself, which deposits their spawn on the tops of mountains, and on the interior plains; the fish principle in nature, from which it results that they may be found in water in so many

places, in greater or less numbers. The natural historian is not a fisherman, who prays for cloudy days and good luck merely, but as fishing has been styled “a contemplative man’s recreation,” introducing him profitably to woods and water, so the fruit of the naturalist’s observations is not in new genera or species, but in new contemplations still, and science is only a more contemplative man’s recreation. The seeds of the life of fishes are everywhere disseminated, whether the winds waft them, or the waters float them, or the deep earth holds them; wherever a pond is dug, straightway it is stocked with this vivacious race. They have a lease of nature, and it is not yet out. The Chinese are bribed to carry their ova from province to province in jars or in hollow reeds, or the water-birds to transport them to the mountain tarns and interior lakes. There are fishes wherever there is a fluid medium, and even in clouds and in melted metals we detect their semblance. Think how in winter you can sink a line down straight in a pasture through snow and through ice, and pull up a bright, slippery, dumb, subterranean silver or golden fish! It is curious, also, to reflect how they make one family, from the largest to the smallest. The least minnow that lies on the ice as bait for pickerel, looks like a huge sea-fish cast up on the shore. In the waters of this town there are about a dozen distinct species, though the inexperienced would expect many more.

It enhances our sense of the grand security and serenity of nature, to observe the still undisturbed economy and content of the fishes of this century, their happiness a regular fruit of the summer. The Fresh-Water Sun-Fish,

Bream, or Ruff, *Pomotis vulgaris*, as it were, without ancestry, without posterity, still represents the Fresh-Water Sun-Fish in nature. It is the most common of all, and seen on every urchin's string; a simple and inoffensive fish, whose nests are visible all along the shore, hollowed in the sand, over which it is steadily poised through the summer hours on waving fin. Sometimes there are twenty or thirty nests in the space of a few rods, two feet wide by half a foot in depth, and made with no little labor, the weeds being removed, and the sand shoved up on the sides, like a bowl. Here it may be seen early in summer assiduously brooding, and driving away minnows and larger fishes, even its own species, which would disturb its ova, pursuing them a few feet, and circling round swiftly to its nest again: the minnows, like young sharks, instantly entering the empty nests, meanwhile, and swallowing the spawn, which is attached to the weeds and to the bottom, on the sunny side. The spawn is exposed to so many dangers, that a very small proportion can ever become fishes, for beside being the constant prey of birds and fishes, a great many nests are made so near the shore, in shallow water, that they are left dry in a few days, as the river goes down. These and the lamprey's are the only fishes' nests that I have observed, though the ova of some species may be seen floating on the surface. The breams are so careful of their charge that you may stand close by in the water and examine them at your leisure. I have thus stood over them half an hour at a time, and stroked them familiarly without frightening them, suffering them to nibble my fingers harmlessly, and seen them erect their dorsal fins in anger when my hand

approached their ova, and have even taken them gently out of the water with my hand; though this cannot be accomplished by a sudden movement, however dexterous, for instant warning is conveyed to them through their denser element, but only by letting the fingers gradually close about them as they are poised over the palm, and with the utmost gentleness raising them slowly to the surface. Though stationary, they keep up a constant sculling or waving motion with their fins, which is exceedingly graceful, and expressive of their humble happiness; for unlike ours, the element in which they live is a stream which must be constantly resisted. From time to time they nibble the weeds at the bottom or overhanging their nests, or dart after a fly or a worm. The dorsal fin, besides answering the purpose of a keel, with the anal, serves to keep the fish upright, for in shallow water, where this is not covered, they fall on their sides. As you stand thus stooping over the bream in its nest, the edges of the dorsal and caudal fins have a singular dusty golden reflection, and its eyes, which stand out from the head, are transparent and colorless. Seen in its native element, it is a very beautiful and compact fish, perfect in all its parts, and looks like a brilliant coin fresh from the mint. It is a perfect jewel of the river, the green, red, coppery, and golden reflections of its mottled sides being the concentration of such rays as struggle through the floating pads and flowers to the sandy bottom, and in harmony with the sunlit brown and yellow pebbles. Behind its watery shield it dwells far from many accidents inevitable to human life.

There is also another species of bream found in our river, without the red spot on the operculum, which, according to M. Agassiz, is undescribed.

The Common Perch, *Perca flavescens*, which name describes well the gleaming, golden reflections of its scales as it is drawn out of the water, its red gills standing out in vain in the thin element, is one of the handsomest and most regularly formed of our fishes, and at such a moment as this reminds us of the fish in the picture which wished to be restored to its native element until it had grown larger; and indeed most of this species that are caught are not half grown. In the ponds there is a light-colored and slender kind, which swim in shoals of many hundreds in the sunny water, in company with the shiner, averaging not more than six or seven inches in length, while only a few larger specimens are found in the deepest water, which prey upon their weaker brethren. I have often attracted these small perch to the shore at evening, by rippling the water with my fingers, and they may sometimes be caught while attempting to pass inside your hands. It is a tough and heedless fish, biting from impulse, without nibbling, and from impulse refraining to bite, and sculling indifferently past. It rather prefers the clear water and sandy bottoms, though here it has not much choice. It is a true fish, such as the angler loves to put into his basket or hang at the top of his willow twig, in shady afternoons along the banks of the stream. So many unquestionable fishes he counts, and so many shiners, which he counts and then throws away. Old Josselyn in his "New England's Rarities," published in 1672, mentions the Perch or River Partridge.

The Chivin, Dace, Roach, Cousin Trout, or whatever else it is called, *Leuciscus pulchellus*, white and red, always an unexpected prize, which, however, any angler is glad to hook for its rarity. A name that reminds us of many an unsuccessful ramble by swift streams, when the wind rose to disappoint the fisher. It is commonly a silvery soft-scaled fish, of graceful, scholarlike, and classical look, like many a picture in an English book. It loves a swift current and a sandy bottom, and bites inadvertently, yet not without appetite for the bait. The minnows are used as bait for pickerel in the winter. The red chivin, according to some, is still the same fish, only older, or with its tints deepened as they think by the darker water it inhabits, as the red clouds swim in the twilight atmosphere. He who has not hooked the red chivin is not yet a complete angler. Other fishes, methinks, are slightly amphibious, but this is a denizen of the water wholly. The cork goes dancing down the swift-rushing stream, amid the weeds and sands, when suddenly, by a coincidence never to be remembered, emerges this fabulous inhabitant of another element, a thing heard of but not seen, as if it were the instant creation of an eddy, a true product of the running stream. And this bright cupreous dolphin was spawned and has passed its life beneath the level of your feet in your native fields. Fishes too, as well as birds and clouds, derive their armor from the mine. I have heard of mackerel visiting the copper banks at a particular season; this fish, perchance, has its habitat in the Coppermine River. I have caught white chivin of great size in the Aboljacknagesic, where it empties into the Penobscot, at

the base of Mount Ktaadn, but no red ones there. The latter variety seems not to have been sufficiently observed.

The Dace, *Leuciscus argenteus*, is a slight silvery minnow, found generally in the middle of the stream, where the current is most rapid, and frequently confounded with the last named.

The Shiner, *Leuciscus crysoleucas*, is a soft-scaled and tender fish, the victim of its stronger neighbors, found in all places, deep and shallow, clear and turbid; generally the first nibbler at the bait, but, with its small mouth and nibbling propensities, not easily caught. It is a gold or silver bit that passes current in the river, its limber tail dimpling the surface in sport or flight. I have seen the fry, when frightened by something thrown into the water, leap out by dozens, together with the dace, and wreck themselves upon a floating plank. It is the little light-infant of the river, with body armor of gold or silver spangles, slipping, gliding its life through with a quirk of the tail, half in the water, half in the air, upward and ever upward with flitting fin to more crystalline tides, yet still abreast of us dwellers on the bank. It is almost dissolved by the summer heats. A slighter and lighter colored shiner is found in one of our ponds.

The Pickerel, *Esox reticulatus*, the swiftest, wariest, and most ravenous of fishes, which Josselyn calls the Fresh-Water or River Wolf, is very common in the shallow and weedy lagoons along the sides of the stream. It is a solemn, stately, ruminant fish, lurking under the shadow of a pad at noon, with still, circumspect, voracious eye, motionless as a jewel set in water, or moving slowly along to take up its position, darting from time to time at such unlucky fish or